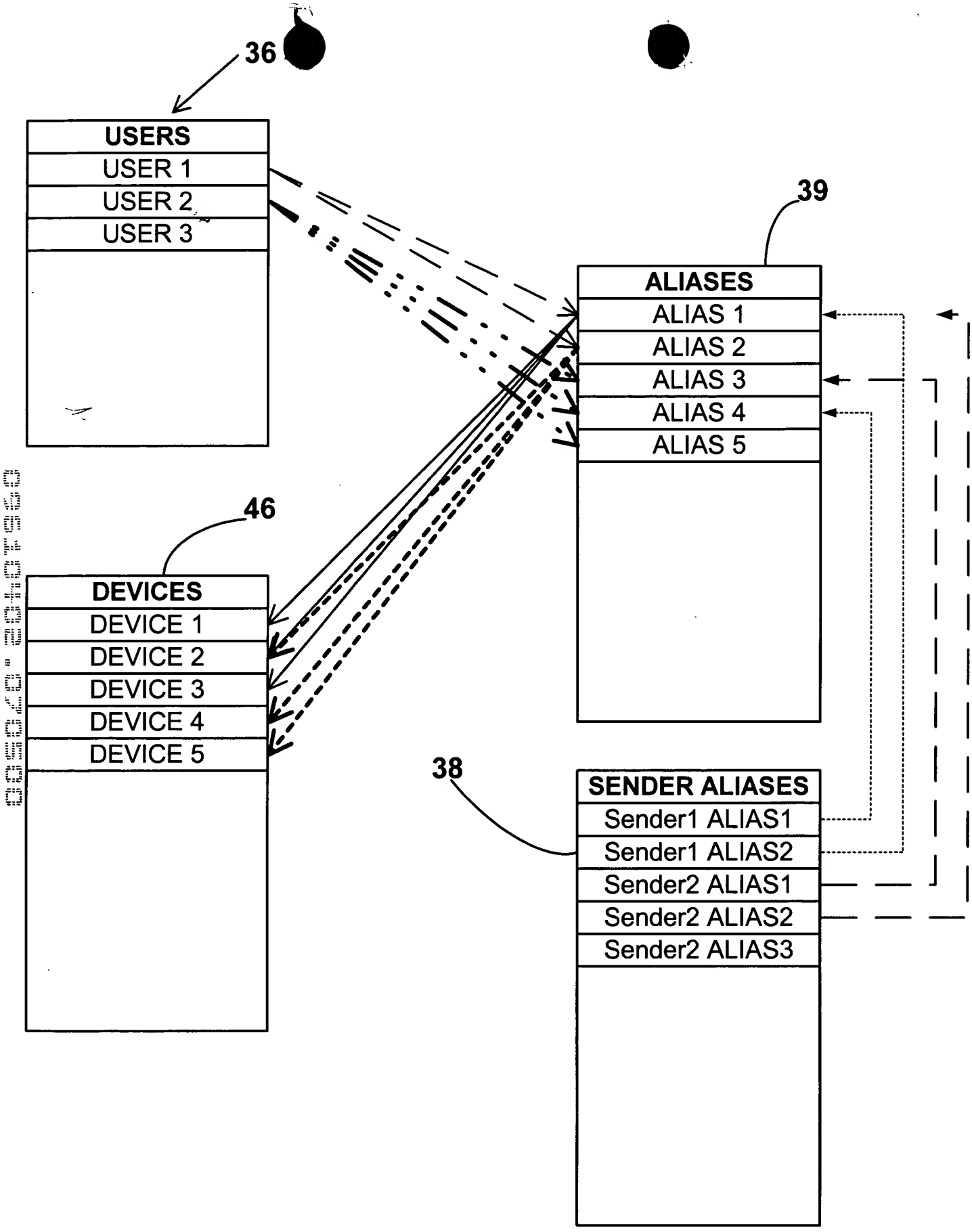
36
USERS
USER 1
USER 2
USER 3
39
ALIASES
ALIAS 1
ALIAS 2
ALIAS 3
ALIAS 4
ALIAS 5
46
DEVICES
DEVICE 1
DEVICE 2
DEVICE 3
DEVICE 4
DEVICE 5
38
SENDER ALIASES
Sender1 ALIAS1
Sender1 ALIAS2
Sender2 ALIAS1
Sender2 ALIAS2
Sender2 ALIAS3

FIGURE 2A

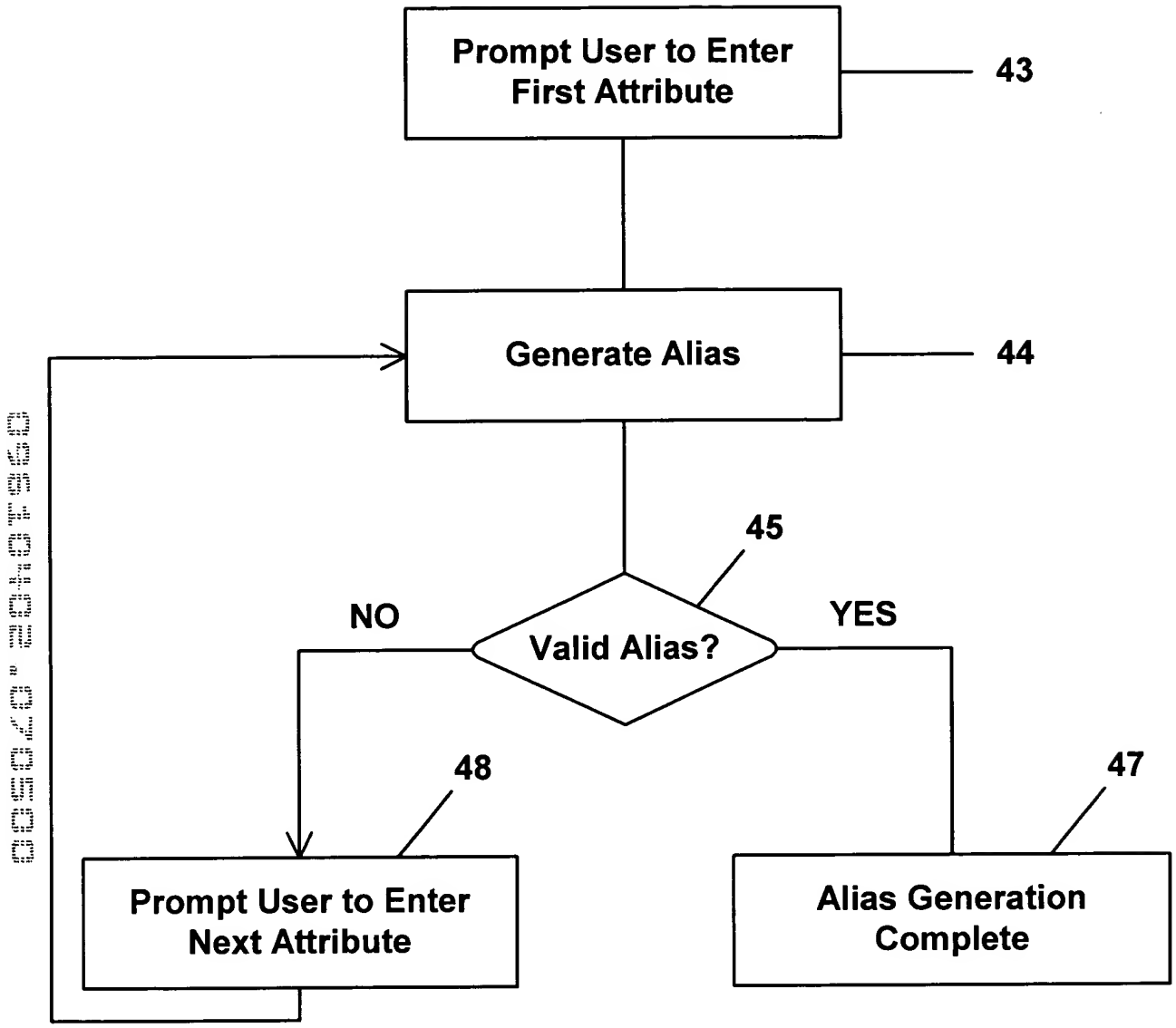
Prompt User to Enter First Attribute
43
Generate Alias
44
45
NO
Valid Alias?
YES
48
47
Prompt User to Enter Next Attribute
Alias Generation Complete

FIGURE 2B

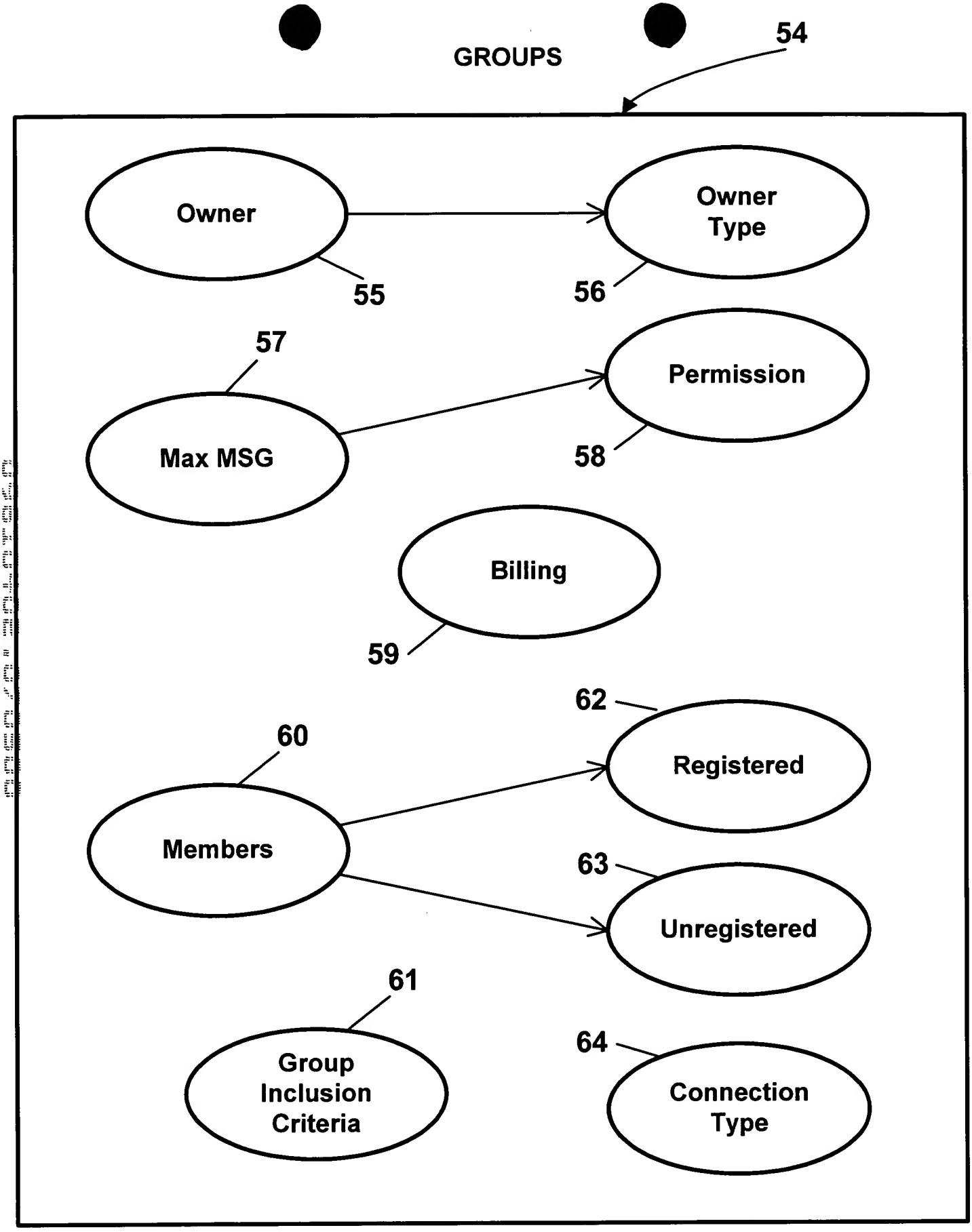
GROUPS
54
Owner
55
Owner Type
56
57
Max MSG
Permission
58
Billing
59
62
60
Members
Registered
63
Unregistered
61
Group Inclusion Criteria
64
Connection Type

FIGURE 3

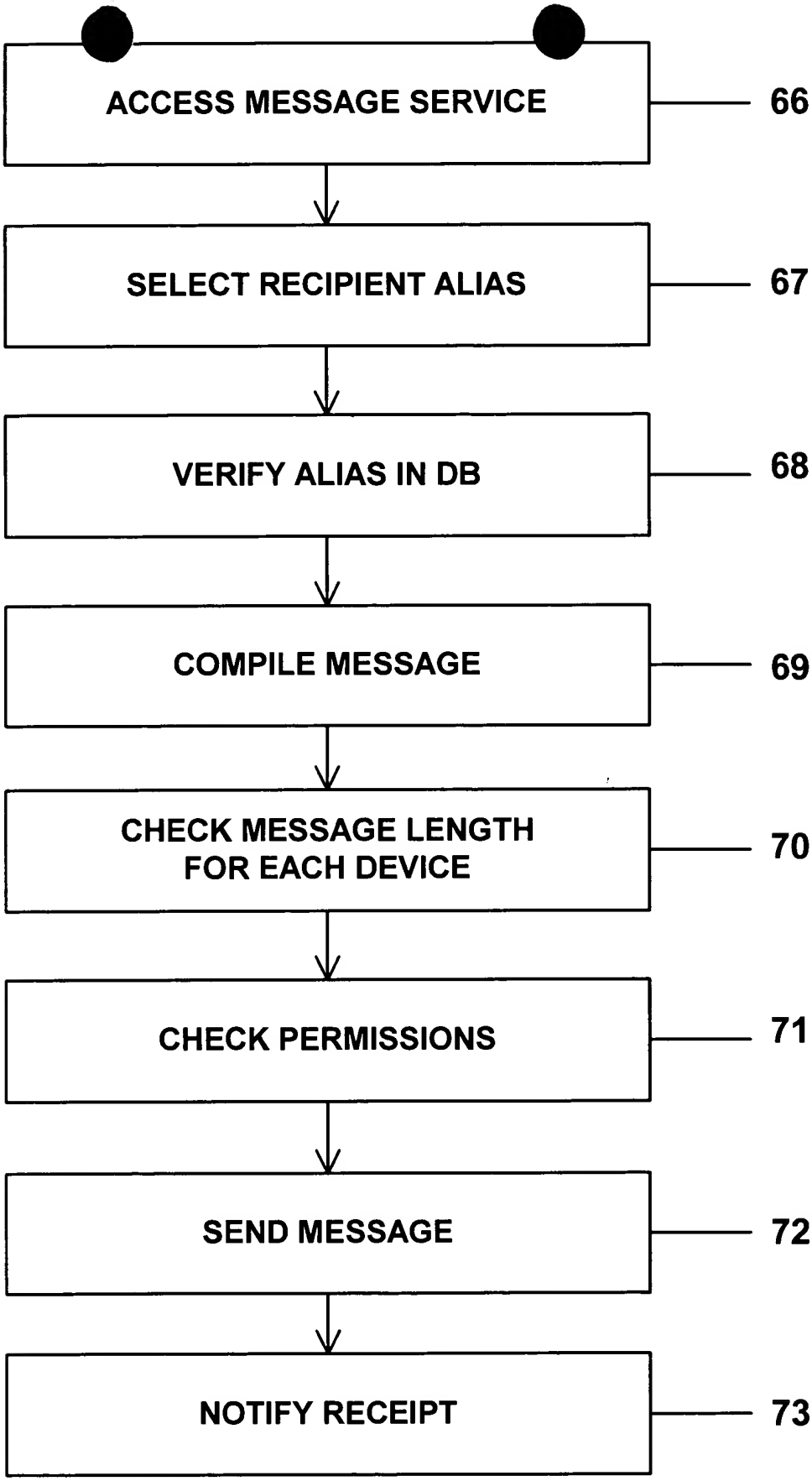
ACCESS MESSAGE SERVICE
66
SELECT RECIPIENT ALIAS
67
VERIFY ALIAS IN DB
68
COMPILE MESSAGE
69
CHECK MESSAGE LENGTH FOR EACH DEVICE
70
CHECK PERMISSIONS
71
SEND MESSAGE
72
NOTIFY RECEIPT
73

FIGURE 4

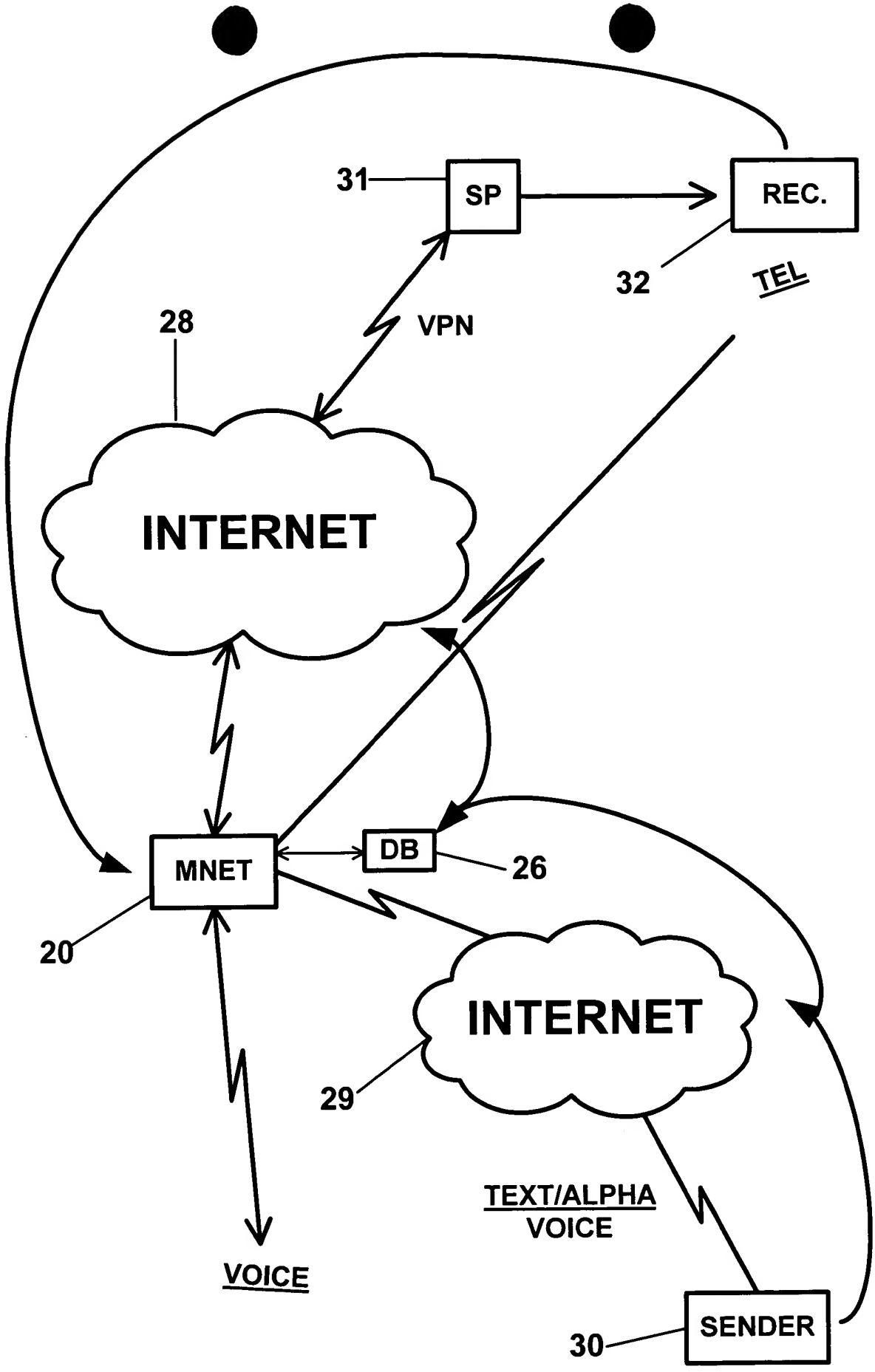
31
SP
REC.
32
TEL
28
VPN
INTERNET
MNET
DB
26
20
INTERNET
29
TEXT/ALPHA
VOICE
VOICE
SENDER
30

FIGURE 5

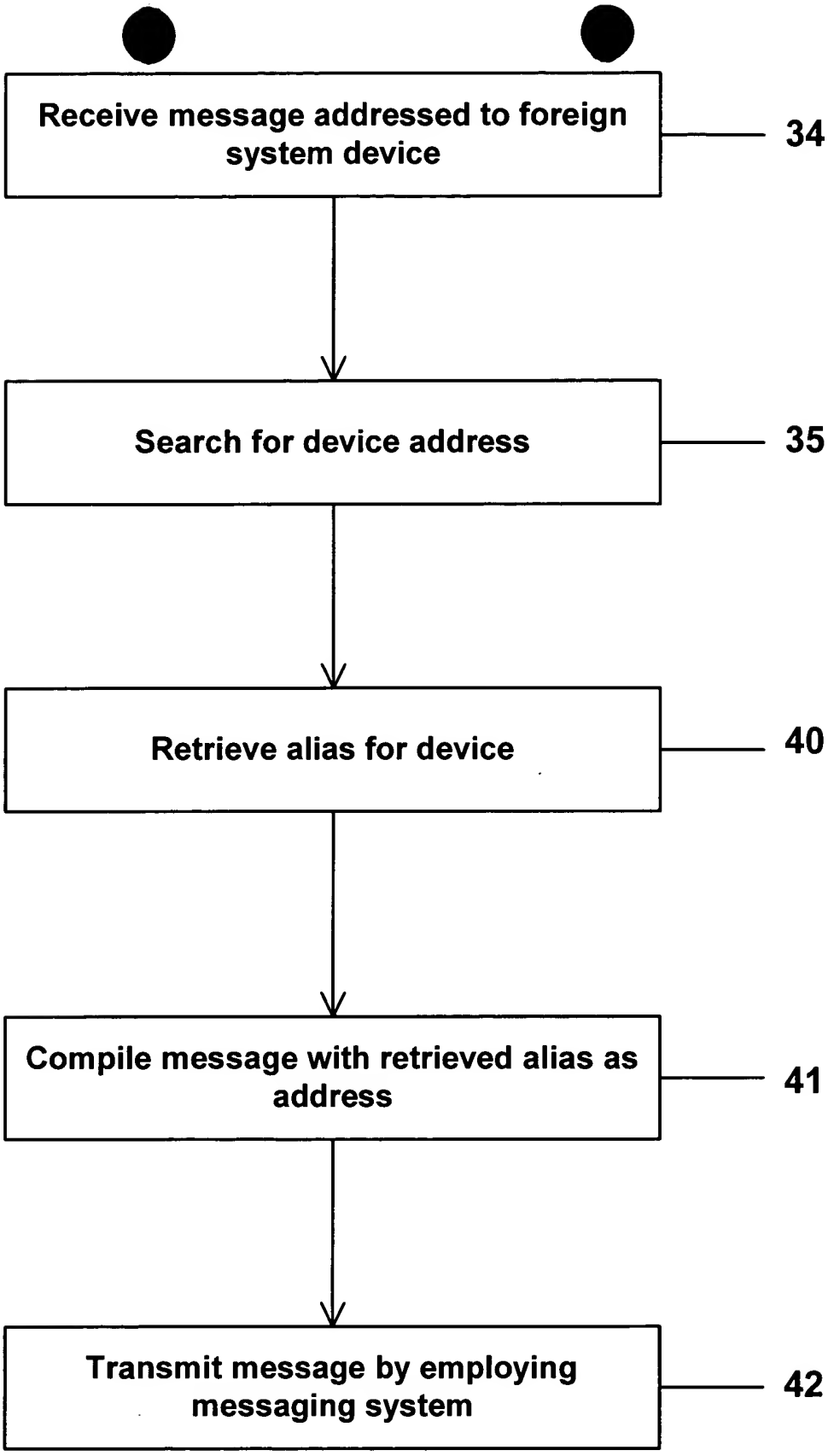
Receive message addressed to foreign system device
34
Search for device address
35
Retrieve alias for device
40
Compile message with retrieved alias as address
41
Transmit message by employing messaging system
42

FIGURE 6

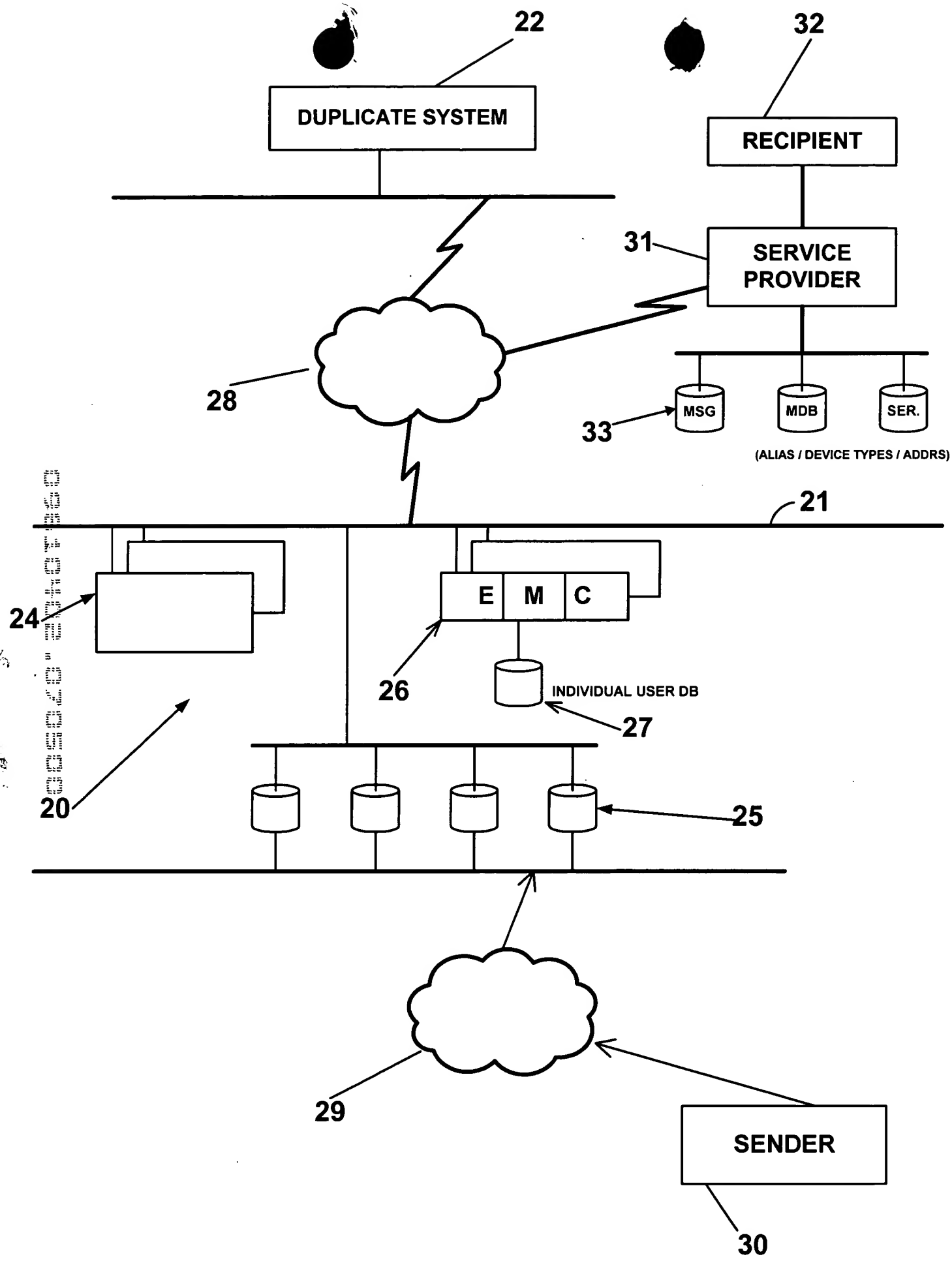
22
DUPLICATE SYSTEM
32
RECIPIENT
31
SERVICE PROVIDER
28
33
MSG
MDB
SER.
(ALIAS / DEVICE TYPES / ADDRS)
21
24
E
M
C
26
INDIVIDUAL USER DB
27
20
25
29
SENDER
30

FIGURE 1